

# REAR PROJECTION DISPLAY APPARATUS

## Abstract

A rear projection display apparatus includes a housing, an optical engine installed in the housing, a multi-curvatures reflection mirror, a plane mirror and a screen, in which a plurality of reflection faces with a different curvature radius are disposed at the surface of the multi-curvatures reflection mirror according to the lengths of optical paths. An image beam is provided by the optical engine and the light paths are reflected and bended to the plane mirror by the multi-curvatures reflection mirror after image deformation is corrected. Finally, the optical paths are reflected and bended again by the plane mirror and the image is displayed on the screen. Whereby, the thickness of the apparatus can be reduced and the image deformation can be improved.